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ABSTRACT

The invention provides for a method and system for properly tracking, synchronizing and demodulating received packets at a receiver in order to decode data and other informational symbols transmitted by a transmitter. The invention further provides for a method and system for correcting for distortion, phase shift, and frequency offset at a receiver due to variations in the frequencies transmitted by a transmitter. The system and method disclosed herein and employed for acquisition and initial synchronization is effectively immune to channel impairments, such as multi-path.